

IoT SuperServer SYS-E300-12D-8CN6P

Mini-1U Embedded System with Intel Ice Lake-D CPU with 8 cores Super Server



Key Applications

IoT Gateway, Universal Customer Premise Equipment (uCPE), Network Function Virtualization (NFV), Networking Security Appliance, SD-WAN,

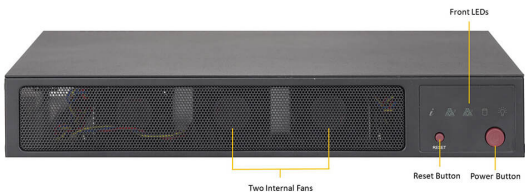
Key Features

- Intel® Xeon® D Processor D-1736NT;
- 4x DDR4-2933MHz R-DIMM max 256GB or U-DIMM 128GB;
- Support M.2 M/B/E-Key with Nano SIM Card Slot
Support PCIe 4.0 x16 Slot (Optional);
- 4x LAN 1GbE + 2x LAN SFP28 25GbE + IPMI;
- Support 1x 2.5" drive bays (Optional);

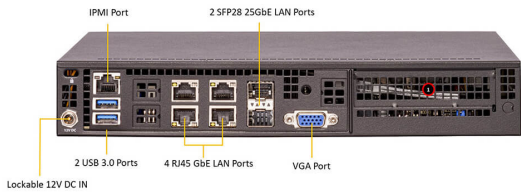


Form Factor	Fan-based Embedded Enclosure: 264.8 x 43 x 225.8mm (10.43" x 1.69" x 8.89") Package: 381 x 276 x 142mm (15" x 10.87" x 5.59")
Processor	Single FCBGA-2227 Intel® Xeon® Processor D-1736NT Up to 8C/16T; Up to 15MB Cache
System Memory	Slot Count: 4 DIMM slots Max Memory (2DPC): Up to 256GB 2933MT/s ECC/non-ECC DDR4 RDIMM/UDIMM
Drive Bays Configuration	Default: Total 1 bay • 1 internal fixed 2.5" SATA* drive bay (*SATA support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 1 M.2 PCIe 3.0 x2 SATA slot (B-key 2280/3042/3052) 1 M.2 PCIe 3.0 x4 NVMe/SATA slot (M-key 2280)
Expansion Slots	PCI-Express (PCIe) Configuration: Default* • 1 PCIe 4.0 x16 LP slot (*Requires additional parts, please see the optional parts list for details. For more details on PCIe slot configuration options, please refer to the system callout images above.) M.2: 1 M.2 PCIe 3.0 x1 slot (E-key 2230(default))
On-Board Devices	2 SFP28 25GbE 2 RJ45 1GbE with Intel® I210-IT 2 RJ45 1GbE with Intel® I350-AM2
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 SFP28 25 GbE LAN ports 2 RJ45 1 GbE LAN ports (Intel® I350-AM2) 2 RJ45 1 GbE LAN ports (Intel® I210-IT) USB: 2 USB 3.0 Type-A ports (Rear) Video: 1 VGA port (Rear)

(Front View – System)



(Rear View – System)



Slot Name	Slot Description
Slot 1	PCI-E 4.0 x16 LP

System Cooling	Fans: Up to 3x 4-PIN PWM 40x40x28mm Fan(s)
Power Supply	1x 180W power supply
System BIOS	BIOS Type: AMI 32MB UEFI BIOS Features: ACPI 6.3 UEFI 2.7 SMBIOS 3.3 PCI FW 3.0
Management	SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
Dimensions and Weight	Weight: Gross Weight: 7.5 lbs (3.4 kg) Net Weight: 3.7 lbs (1.6 kg) Available Color: Black
Operating Environment	Operating Temperature: 0°C to 40°C (32°F to 104°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	Super X12SDV-8C-SP6F
Chassis	CSE-E300